

DVD-H1080
DVD-H1080R
DVD-H1080W

DVD Player

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register
your product at
www.samsung.com/global/register

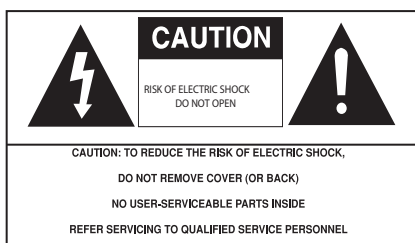
getting started

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched; particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Precautions



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

Note to CATV system installer : This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.
Caution : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- If this power supply is used at 240V ac, a suitable plug adapter should be used.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This class B digital apparatus meets all requirements of the Canadian Interference -- Causing Equipment Regulations.

CALIFORNIA USA ONLY :

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA "Perchlorate Material - special handling may apply" , See www.dtsc.ca.gov/hazardouswaste/perchlorate.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
PRODUCTO	LÁSER CLASE 1

getting started

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Note:

- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc.

Handling Cautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- The Main plug is used as a disconnect device and shall stay readily operable at any time.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Before you start

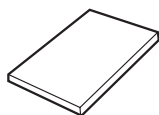
Accessories



Remote Control
(AK59-00103A)



Batteries for
Remote Control
(AAA Size)
(AC43-12002H)



User's Manual
(AK68-01754A)

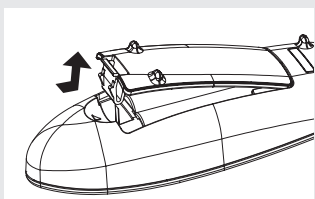


Video/Audio
Cable
(AC39-42001U &
AC39-22017Z)

Install Batteries in the Remote control

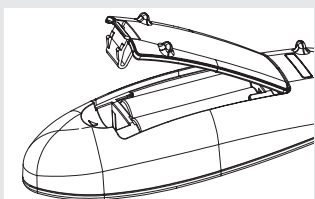
1

Open the battery cover on the bottom side of the remote control.



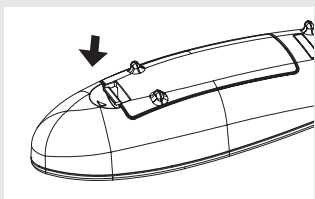
2

Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.



3

Replace the battery cover.



If the remote control doesn't operate properly:

- Check the polarity + - of the battery.
- Check if the battery is drained.
- Check if the remote control sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

getting started

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General Features

Excellent Sound

Dolby Digital, a technology developed by Dolby Laboratories, provides crystal clear sound reproduction.

Screen

Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion

An important scene can be viewed in slow motion.

1080p Playback

This player upconverts regular DVDs for playback on 1080p TVs.

Parental Control (DVD)

The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions

You can select various languages (Audio/Subtitle) and screen angles while enjoying movies.

Progressive Scan

Progressive scanning creates an improved picture with double the scan lines of a conventional interlaced picture.

EZ VIEW (DVD)

Easy View enables picture adjustment to match your TV's screen size (16:9 or 4:3).

Digital Photo Viewer (JPEG)

You can view Digital Photos on your TV.

Repeat

You can repeat a song or movie simply by pressing the REPEAT button.

MP3/WMA

This unit can play discs created from MP3/WMA files.

CD Ripping

This feature lets you to copy audio files from a disc into MP3 format on a USB device. (Audio CD only (CD DA)).

MPEG4

This unit can play MPEG4 formats within an avi file.

HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the player to your TV.

Note

- Discs which cannot be played with this player.

- DVD-ROM • DVD-RAM
- CD-ROM • CDV
- CDI • CVD
- Super Audio CD(except CD layer)
- CDGs play audio only, not graphics.

- Ability to play back may depend on recording conditions.

- DVD-R, +R
- CD-RW
- DVD+RW, -RW (V mode)

- The unit may not play certain CD-R, CD-RW and DVD-R due to the disc type or recording conditions.

COPY PROTECTION

Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.

This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

PROGRESSIVE SCAN OUTPUTS (480p, 720p, 1080p)

"CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE, IF PROGRESSIVE SCAN PICTURE PROBLEMS OCCUR, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' (VIDEO) OUTPUT. IF THERE ARE QUESTIONS REGARDING YOUR TV SET COMPATIBILITY WITH THIS DVD PLAYER, PLEASE CONTACT SAMSUNG'S CUSTOMER SERVICE CENTER."

getting started

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	5"	Single-sided 240 min. Double-sided 480 min.	- DVD contains excellent sound and video due to Dolby Digital and the MPEG-2 system. - Various screen and audio functions can be easily selected through the on-screen menu.
		3 1/2"	Single-sided 80 min. Double-sided 160 min.	
AUDIO-CD 	Audio	5"	74 min.	- CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		3 1/2"	20 min.	

Disc Markings

	Play Region Number
	NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.
	Dolby Digital disc
	Stereo disc
	Digital Audio disc
	DTS disc
	MP3 disc

You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD player.

Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is described on the bottom panel of the player.

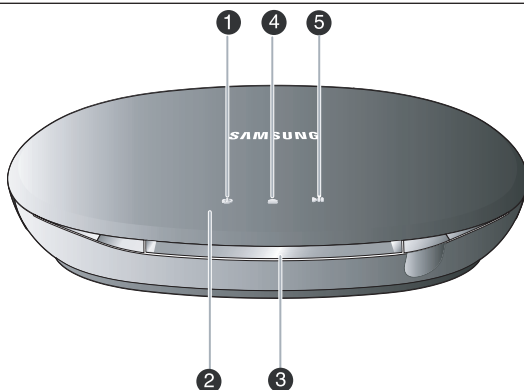
DivX Certification

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc and are used under license



Description

Front Panel Controls



1. STANDBY/ON (⏻)

When STANDBY/ON is pressed on, the indicator goes out and the player is turned on.

2. STANDBY Indicator

When the unit is first plugged in, the indicator lights.

3. DISC TRAY

Place the disc here.

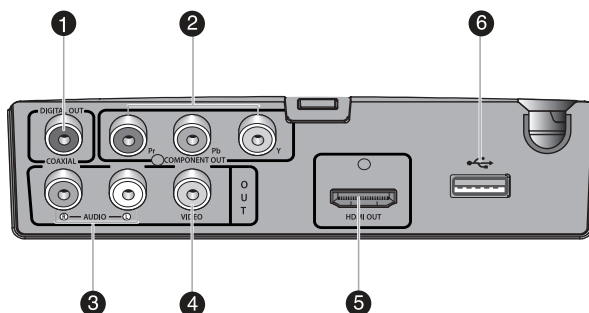
4. OPEN/CLOSE /STOP (⏏)

Press to open and close the disc tray/ Stops disc play.

5. PLAY/PAUSE (⏮)

Begin or pause disc play.

Rear Panel



1. DIGITAL AUDIO OUT JACKS

- Use either an coaxial digital cable to connect to a compatible Dolby Digital receiver.
- Use a coaxial digital cable to connect to an A/V Amplifier that contains a Dolby Digital, MPEG2 or DTS decoder.

2. COMPONENT VIDEO OUT JACKS

- Use these jacks if you have a TV with Component Video in jacks. These jacks provide P_R, P_B and Y video.
- If P-SCAN is set to "ON" in Video Output of the Setup Menu, progressive scan mode will work.
- If I-SCAN is set to "ON" in Video Output of the Setup Menu, interlaced scan mode will work.

3. AUDIO OUT JACKS

- Use audio cables to connect to the Audio input jacks of your television or audio/video receiver.

4. VIDEO OUT JACK

- Use a video cable to connect to the Video input jack on your television.

5. HDMI OUT JACK

- Use an HDMI cable to connect this jack to the HDMI jack on your television for the best quality picture.
- If an HDMI cable is connected to an HDMI-compatible TV, HDMI will be output automatically from the player about 10 seconds later.

6. USB Host

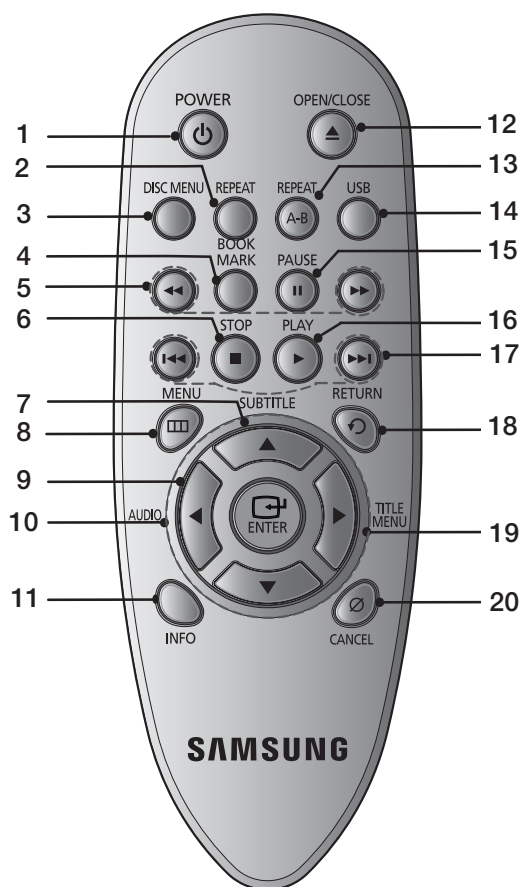
- Connect a digital still camera, MP3 player, memory stick, Card reader and other removable storage devices.

getting started

Note

- Consult your TV User's Manual to find out if your TV supports Progressive Scan (P-SCAN).
If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- The HDMI output of this unit can be connected to a DVI jack on a TV or other device using a conversion adapter. In this case, it is necessary to use a TV or display with an HDCP-compatible DVI input.
- Refer to the TV's instruction manual for detailed information regarding the TV's HDMI input jack.
- See pages 52 ~ 53 to get more information on how to use the setup menu.

Tour of the Remote Control



1. **DVD POWER Button**
Turns the power on or off.
2. **REPEAT Button**
Allows you to repeat play a title, chapter, track or disc.
3. **DISC MENU Button**
Brings up the Disc menu.
4. **BOOKMARK Button**
5. **SEARCH Buttons (<</>>)**
Allow you to search forward/backward through a disc.
6. **STOP Button (■)**
7. **SUBTITLE (▲)Button**
8. **MENU Button**
Brings up the DVD player's menu.
9. **AUDIO (◀) Button**
Use this button to access various audio functions on a disc.
10. **ENTER /▲/▼,◀/▶ Buttons**
This button functions as a toggle switch.
11. **INFO Button**
Displays the current disc mode.
12. **OPEN/CLOSE (▲) Button**
To open and close the disc tray.
13. **REPEAT AB Button**
Allows you to repeat play a chosen section (A-B) on a disc.
14. **USB Button**
Brings up the USB mode when a USB device is connected.
15. **PAUSE (||) Button**
Pause disc play
16. **PLAY Button (▶)**
Begin disc play.
17. **SKIP Buttons (<</>>)**
Use to skip the title, chapter or track.
18. **RETURN Button**
Returns to a previous menu.
19. **TITLE (▶)MENU**
Brings up the Title menu.
20. **CANCEL Button**
Use to remove menus or status displays from the screen.

connections

Choosing a Connection

The following shows examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to the user's manual of the additional components (such as a TV) you are connecting for more information on those particular components.

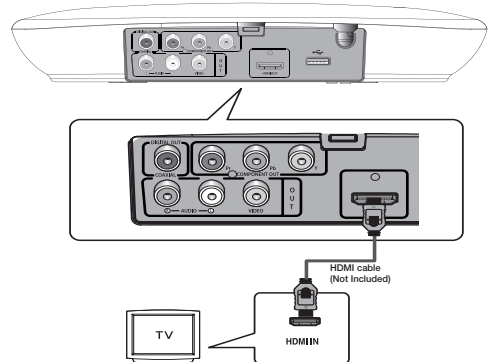
Connecting to a TV with an HDMI Jack

1

Using an HDMI-HDMI cable (not included) connect the **HDMI OUT** jack on the rear of the DVD player to the **HDMI IN** jack of your TV.

2

Press the input selector button on your TV remote control until the HDMI signal from the DVD player appears on your TV screen.



Connecting to a TV with a DVI Jack

1

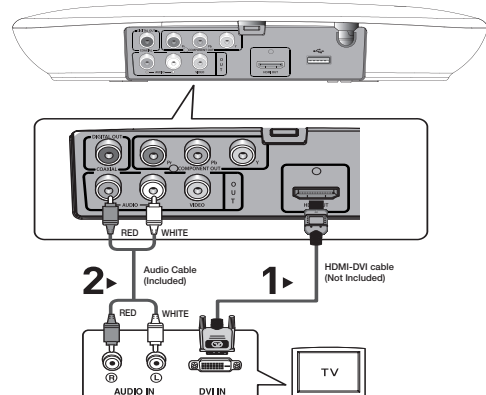
Using an HDMI-DVI cable (not included), connect the **HDMI OUT** jack on the rear of the DVD player to the **DVI IN** jack of your TV.

2

Using the audio cables, connect the **AUDIO** (red and white) **OUT** jacks on the rear of the DVD player to the **AUDIO** (red and white) **IN** jacks of your TV. Turn on your DVD player and TV.

3

Press the input selector button on your TV remote control until the DVI signal from the DVD player appears on your TV screen.



HDMI VIDEO Specifications

- Depending on your TV, certain HDMI output resolutions may not work.
- Please refer to the user's manual of your TV.
- If an HDMI or HDMI-DVI cable is plugged into TV, the DVD player's output is set to HDMI automatically about 10 seconds later.
- For better picture quality, set the HDMI output resolution to 720p, 1080i or 1080p (see page 56).
- This player upconverts regular DVDs for playback on 1080p TVs. It does not play HD DVDs or Blu-Ray discs.
- If you connect an HDMI cable between a Samsung TV and this DVD player, you can operate this DVD player using your TV remote control. This is only available with Samsung TVs that support Anynet+(HDMI-CEC).(see page 57-58)
- If your TV has an  logo, then it supports the Anynet+ function.

● HDMI (High Definition Multimedia Interface)

HDMI enables you to make a digital video and audio connection with a single cable. Using HDMI, the DVD player transmits a digital video and audio signal which displays a vivid picture on a TV having an HDMI input jack.

● HDMI connection description

HDMI connector - Video and audio are transferred digitally without compression (LPCM or Bit Stream data).

- The player outputs a pure digital signal to the TV through an HDMI cable.
- If your TV does not support HDCP (High-bandwidth Digital content protection), snow noise appears on the screen.

● Why does Samsung use HDMI?

Analog TVs require an analog video/audio signal. However, when playing a DVD, the signal transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD player) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.

● What is HDCP?

HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content output via HDMI/DVI from being copied. It provides a secure digital link between a video source (PC, DVD, etc) and a display device (TV, projector, etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

connections

Connecting to a TV (Progressive)

- Connecting to your TV using Component video cables. The 480p resolution is possible with this connection.
- What is "Progressive Scan"?
Progressive scan has twice as many scanning lines as the interlace output method and provides better and clearer picture quality.

1

Using Component video cables (not included), connect the **COMPONENT VIDEO OUT** jacks on the rear of the DVD player to the **COMPONENT IN** jacks of your TV.

2

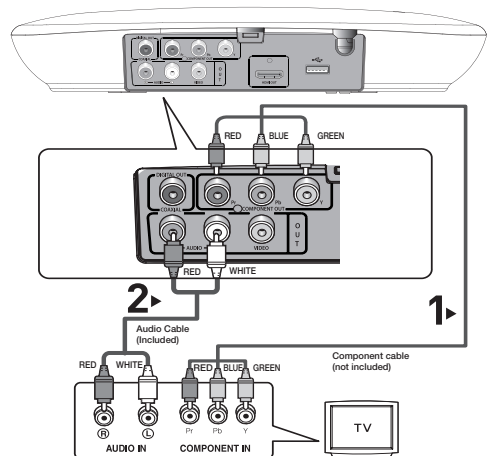
Using the audio cables, connect the **AUDIO (red and white) OUT** jacks on the rear of the DVD player to the **AUDIO (red and white) IN** jacks of your TV.
Turn on the DVD player and TV.

3

Set the Video Output to **P-SCAN** in the Display Setup menu.
(See pages 52 to 53).

4

Press the input selector button on your TV remote control until the Component signal from the DVD player appears on the TV screen.



To see the progressive video output,

- Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- Depending on your TV, the connection method may differ from the illustration above.

Connecting to a TV (Interlace)

- Connecting to your TV using Component video cables.
- This is the best available connection if your TV is not capable of receiving a Progressive Scan signal.
- You will enjoy excellent quality and accurate color reproduction images. Component video separates the picture element into black and white(Y), blue(P_B), red(P_R) signals to present clear and clean images. (Audio signals are delivered through the audio output.)

1

Using Component video cables (not included), connect the **COMPONENT VIDEO OUT** jacks on the rear of the DVD player to the **COMPONENT IN** jacks of your TV.

2

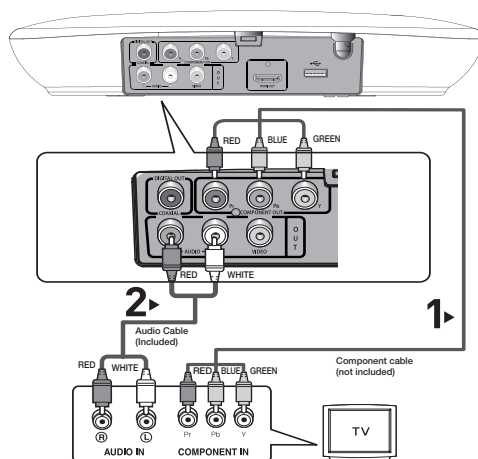
Use the audio cables, connect the **AUDIO (red and white) OUT** jacks on the rear of the DVD player to the **AUDIO (red and white) IN** jacks of your TV. Turn on your DVD player and TV.

3

Set the Video Output to **I-SCAN** in the Display Setup menu. (See pages 52 to 53)

4

Press the input selector on your TV remote control until the Component signal from the DVD player appears on the TV screen.



Note

- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 17 to 18)
- The component jack of your TV may be marked "R-Y, B-Y, Y" or "Cr, Cb, Y" instead of "P_R, P_B, Y" depending on the manufacturer. The number and position of the jacks may vary depending on the TV set. Please refer to the user's manual of your TV.

connections

Connecting to a TV (Video)

1

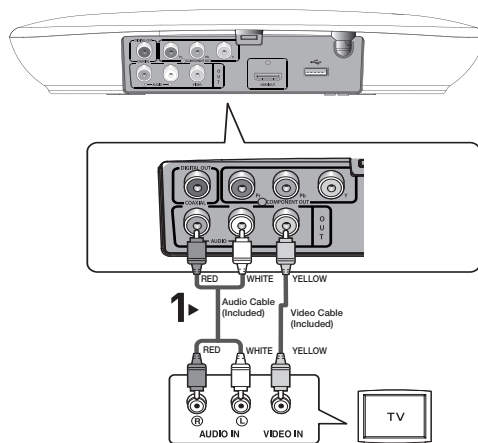
Using Video/Audio cables, connect the **VIDEO (yellow)/AUDIO (red and white) OUT** jacks on the rear of the DVD player to the **VIDEO (yellow)/AUDIO (red and white) IN** jacks of your TV.

2

Turn on your DVD player and TV.

3

Press the input selector button on your TV remote control until the Video signal from the DVD player appears on the TV screen.



Note

- Noise may be generated if the audio cable placed too close to the power cable.
- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 17 to 18)
- The number and position of the jacks may vary depending on your TV set. Please refer to the user's manual of your TV.
- If there is one audio input terminal on the TV, connect it to the [AUDIO OUT][left] (white) jack of the DVD player.

Connecting to an Audio System (2 Channel Amplifier)

1

Using the audio cables, connect the **AUDIO (red and white) OUT** jacks on the rear of the DVD player to the **AUDIO (red and white) IN** jacks of the Amplifier.

2

Using the video signal cable(s), connect the **HDMI, COMPONENT** or **VIDEO OUT** jacks on the rear of the DVD player to the **HDMI/DVI, COMPONENT** or **VIDEO IN** jack of your TV as described on pages 12 to 16.

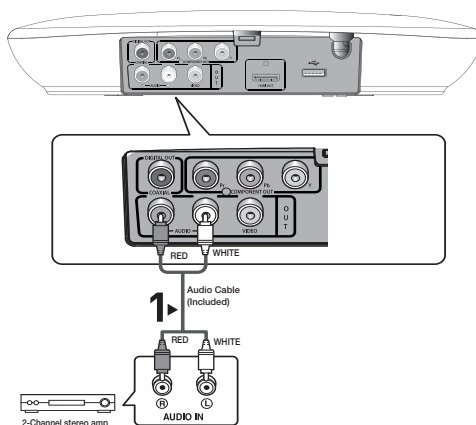
3

Turn on your DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select the audio input your DVD player is connected to in order to hear sound.

Refer to your Amplifier's user manual to set the Amplifier's audio input.



Note

- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the Amplifier.(See pages 50 to 51)
- The position of jacks may vary depending on the Amplifier. Please refer to your Amplifier's user's manual.

connections

Connecting to an Audio System (Dolby digital, MPEG2 or DTS Amplifier)

1

If using a Coaxial cable (not included), connect the **DIGITAL AUDIO OUT (COAXIAL)** jack on the rear of the DVD player to the **DIGITAL AUDIO IN (COAXIAL)** jack of the Amplifier.

2

Using the video signal cable(s), connect the **HDMI**, **COMPONENT** or **VIDEO OUT** jacks on the rear of the DVD player to the **HDMI/DVI**, **COMPONENT** or **VIDEO IN** jack of your TV as described on pages 12 to 16.

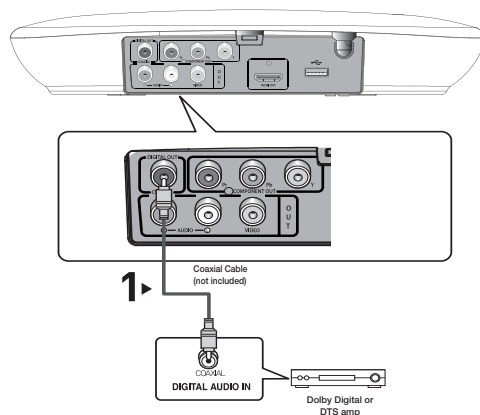
3

Turn on your DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select the audio input your DVD player is connected to in order to hear sound.

Refer to your Amplifier's user manual to set the Amplifier's audio input.



Note

- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the Amplifier you have connected. (See pages 50 to 51)
- The position of jacks may vary depending on the Amplifier. Please refer to the user's manual of the Amplifier.

basic functions

Playing a Disc

Before Play

- Turn on your TV and set it to the Video Input your DVD player is connected to with your TV's remote control.
- If you connected the DVD player to an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the DVD **POWER** button, the screen to the right appears: If you want to select a language, press the **▲/▼** button, and then press the **ENTER** button.

(This screen will only appear when you plug in the player for the first time.)

If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use.

Once you select a menu language, you can change it by pressing the (**▶||**) button on the front panel of the unit for more than 5 seconds with no disc in the unit. Then the **SELECT MENU LANGUAGE** window appears again where you can reset your preferred language.



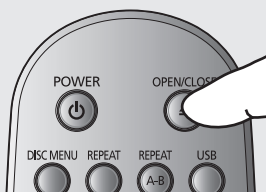
Note

- When the first time power cord plug in, DVD need to initial touch sensor, please wait for 3 seconds or more to power on your DVD player.

Playback

1

Press the **OPEN/CLOSE** (**▲**) button.
The **STANDBY** indicator light goes out and the tray opens.



2

Place a disc gently into the tray with the disc's label facing up.



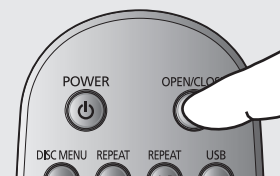
3

Press the **PLAY** (**▶**) button or **OPEN/CLOSE** (**▲**) button to close the disc tray.



◀ RESUME function

When you stop disc play, the player remembers where you stopped, so when you press the **PLAY** (**▶**) button again, it will pick up where you left off.



basic functions

4

Stopping Play

Press the **STOP** (■) button during play.



Note

- If the player is left in the stop mode for more than one minute without pressing any buttons, a screen saver will be activated. Press the **PLAY** (▶) button to resume normal play.
- If the player is left in the stop mode for more than 30 minutes, the power will automatically turn off.
- If you stop the disc during play, it will pick up where it left off when you press Play again. If you press Stop twice, this feature will not work.
- The player can retain the last 5 discs stopping point in memory.

5

Removing the Disc

Press the **OPEN/CLOSE** (▲) button.



6

Pausing Play

Press the **PAUSE** (||) button on the remote control during play.



- ◀ Screen stops, no sound.
To resume, press the **PLAY** (▶) button once again.

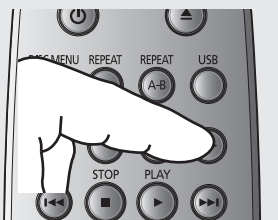
Note

If the player is left for about 5 minutes in pause mode, it will stop.

7

Slow Motion Play

Press the **SEARCH** (◀/▶) button to choose the play speed between 1/2, 1/4, 1/8 and 1/16 of normal speed during PAUSE mode.



- ◀ No sound is heard during slow mode.
Press the **PLAY** (▶) button to resume normal play.

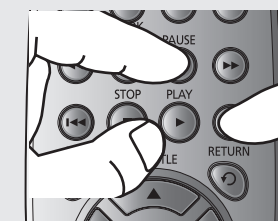
Note

- The (⊙) icon indicates an invalid button press.
- This player does not play HD DVDs or Blu-Ray discs.

8

Step Motion Play (Except CD)

Press the **PAUSE** button and then **SKIP** (▶▶) on the remote control during play.



- ◀ Each time the button is pressed, a new frame will appear.
No sound is heard during STEP mode.
Press the **PLAY** (▶) button to resume normal play.
You can only perform step motion play in the forward direction.

Using the Search and Skip Functions

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching through a Chapter or Track

During play, press the **SEARCH** (◀◀ or ▶▶) button on the remote control for more than 1 second.



◀ If you want to search at a faster speed on the DVD or CD, press and hold the button.

DVD	2X, 4X, 64X, 128X
CD	2X, 4X, 8X

Note

- The speed marked in this function may be different from the actual playback speed.
- No sound is heard during search mode (Except CD).

Skipping Tracks

During play, press the **SKIP** (◀◀ or ▶▶) button.



- When playing a DVD, if you press the SKIP (▶▶) button, it moves to the next chapter. If you press the SKIP (◀◀) button, it moves to the beginning of the chapter. Pressing the Skip button twice makes the DVD move to the beginning of the previous chapter.
- When playing a CD, if you press the SKIP (▶▶) button, it moves to the next track. If you press the SKIP (◀◀) button, it moves to the beginning of the track. Pressing the Skip button twice makes the DVD move to the beginning of the previous track.

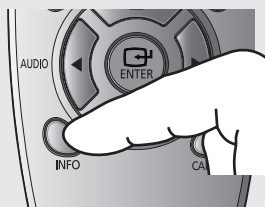
basic functions

Using the Display Function

When Playing a DVD/MPEG4

1

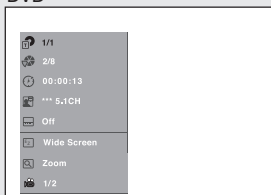
During play, press the **INFO** button on the remote control.



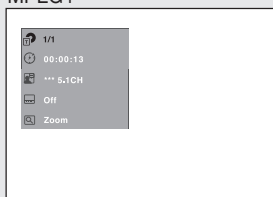
2

Press the **▲/▼** buttons to select the desired item.

DVD

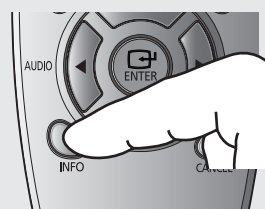


MPEG4



3

To make the screen disappear, press the **INFO** button again.



Note

	To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.
	Most DVD discs are recorded in chapters so that you can quickly find a specific passage (similar to tracks on an audio CD).
	Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
	Refers to the film's soundtrack language. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.
	Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.
	User will be able to choose EZ-View type
	This button has function as shortcut. Press enter to activate the Zoom function.
	To access the desired Angle function. Some DVD discs have more than one recorded angle.

Using the Disc and Title Menu

Using the Disc Menu

1
During the playback of a DVD disc, press the **Disc MENU** button on the remote control.

2
Press the **▲/▼** buttons for navigation/selection, then press the **ENTER** button.

3
To make the screen disappear, press the **RETURN** or **DISC MENU** button again.

Note

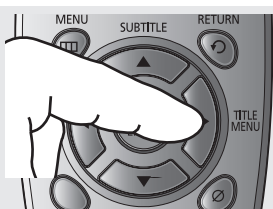
- Depending on a disc, the Disc Menu may not work.
- You can also select the Disc Menu, using the DISC MENU button on the remote control.

basic functions

Using the Title Menu

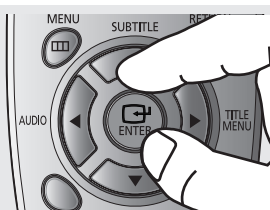
1

During the playback of a DVD disc, press the ► / Title Menu button on the remote control.



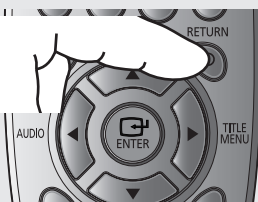
2

Press the ▲/▼ or ◀/▶ buttons for navigation/selection, then press the ENTER button.



3

To make the screen disappear, press the RETURN button again.



Note

- Depending on a disc, the Title Menu may not work.
- Title Menu will only be displayed if there are at least two titles in the disc.

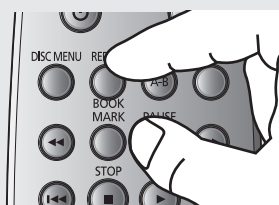
Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

When playing a DVD

1

Press the REPEAT button on the remote control. Repeat screen appears.



2

Press the REPEAT button to change playback mode.



◀ A DVD repeats play by chapter or title.

Chapter : repeats the chapter that is playing.

Title : repeats the title that is playing.

Disc: repeats the disc that is playing.

Off

Using the A-B Repeat function

1. Press the **REPEAT A-B** button on the remote control at the point where you want repeat play to start (A).
2. Press the **REPEAT A-B** button on the remote control at the point where you want repeat play to stop (AB).

Note

A-B REPEAT allow you to set point (AB) Directly after point (A) has been set.



Note

- Depending on the disc, the Repeat function may not work.

Slow Play

This feature allows you slowly to repeat scenes containing sports, dancing, musical instruments being played etc., so you can study them more closely.

When playing a DVD

1

During play, press the **PAUSE (II)** button.



2

Press the **SEARCH (◀/▶)** button to choose the play speed between 1/2, 1/4, 1/8 and 1/16 of normal speed during PAUSE mode.



advanced functions

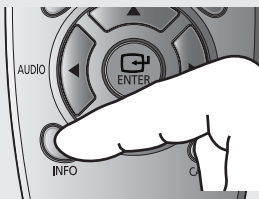
Adjusting the Aspect Ratio (EZ View)

The Aspect ratio is the relation between the width and height of a picture. The two most common are 4:3 (Standard) and 16:9 (Widescreen). Follow the instructions below for the best aspect ratio setting for your TV.

Changing the aspect ratio (DVD)

1

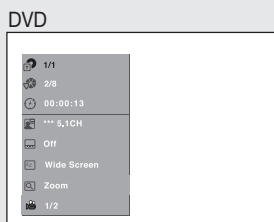
During play, press the **INFO** button on the remote control.



You can select Info in the function menu by pressing the INFO button.

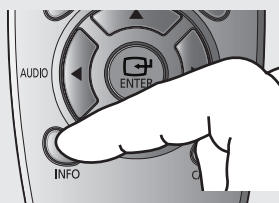
2

Press the **▲/▼** buttons to select **■** icon.
Press the **◀/▶** buttons to select EZ View.



3

To make the screen disappear, press the **INFO** button again.



Here are some examples of possible screen sizes by adjusting the aspect ratio:

- 4:3 Letter Box



- 4:3 Pan&Scan



Note

This function may behave differently depending on the type of disc.

advanced functions

- 16:9 Wide



If you are using a 16:9 TV

For 16:9 aspect ratio discs

- WIDESCREEN TV

Displays the content of the DVD title in 16:9 aspect ratio.

- SCREEN FIT

The top and bottom portions of the screen are cut off.

When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on a type of disc, the black bars may not disappear completely.)

- ZOOM FIT

The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- Normal Wide

Displays the content of the DVD title in 16:9 aspect ratio.

The picture will look horizontally stretched.

- SCREEN FIT

The top and bottom portions of the screen are cut off and the full screen appears.

The picture will look vertically stretched.

- ZOOM FIT

The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.

- Vertical Fit

When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

If you are using a 4:3 TV

For 16:9 aspect ratio discs

- 4:3 Letter Box

Displays the content of the DVD title in 16:9 aspect ratio.

The black bars will appear at the top and bottom of the screen.

- 4:3 Pan&Scan

The left and right portions of the screen are cut off and the central portion of the 16:9 screen is displayed.

- SCREEN FIT

The top and bottom portions of the screen are cut off and a full screen appears.

The picture will look vertically stretched.

- ZOOM FIT

The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- Normal Screen

Displays the content of the DVD title in 4:3 aspect ratio.

- SCREEN FIT

The top and bottom portions of the screen are cut off and the full screen appears.

The picture will look vertically stretched.

- ZOOM FIT

The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.

advanced functions

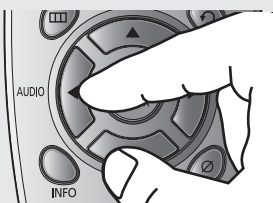
Selecting the Audio Language

You can select a desired audio language available on a disc quickly and easily with the ◀/AUDIO button.

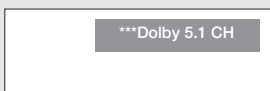
Using the ◀/AUDIO button (DVD/MPEG4)

Press the ◀/AUDIO button. The Audio changes when the button is pressed repeatedly.

- The audio languages are represented by abbreviations.



DVD



Press the ◀/AUDIO button on the remote control repeatedly to select the desired Audio (MP3, PCM, WMA, AC3 and MPEG) on MPEG4 discs then press the ENTER button.

MPEG4



The following message will appear and you will not hear audio when your HDMI connected TV cannot support RAW digital audio.



◀ MPEG4 is a compressed video format designed to deliver DVD quality video at lower data rates and smaller file sizes. Types of MPEG4 files are DivX or Xdiv. These files have an .avi extension.

Note

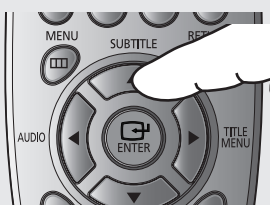
- This function depends on audio languages that are encoded on the disc. This function may not work with all DVDs.
- A DVD disc can contain up to 8 audio languages.
- To have the same audio language come up whenever you play a DVD; refer to "Using the Audio Language" on page 47.

Selecting the Subtitle Language

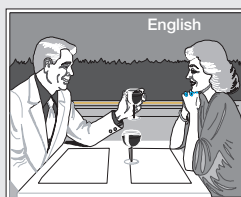
You can select a desired subtitle quickly and easily with the ▲/SUBTITLE button.

Using the ▲/SUBTITLE button (DVD/MPEG4)

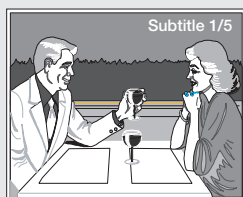
Press the ▲/SUBTITLE button.
The subtitle changes when the button is pressed repeatedly.
The subtitle languages are represented by abbreviations.



DVD



MPEG4



Press the ▲/Subtitle button on the remote control repeatedly to select the desired subtitle language on an MPEG4 disc.

Note

- Depending on the DVD, you may have to select the desired subtitle in the DVD's Disc Menu. Press the DISC MENU button.
- This function depends on what subtitles are encoded on the disc. This function may not work with all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- To have the same subtitle language come up whenever you play a DVD; Refer to "Using the Subtitle Language" on page 48.

advanced functions

Changing the Camera Angle

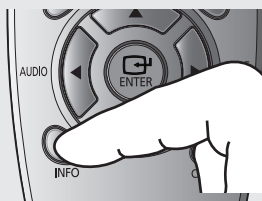
When a DVD contains multiple angles of a particular scene, you can use the **ANGLE** function.

Using the **ANGLE** function (DVD)

If the disc contains multiple angles, the **ANGLE** mark appears on the screen.

1

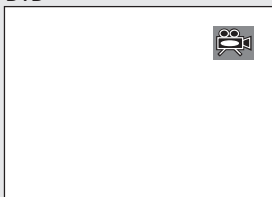
During play, press the **INFO** button on the remote control.



2

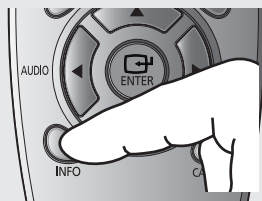
Press the **▲/▼** buttons to select , then press the **ENTER** button. Press the **◀/▶** buttons on the remote control to select the desired angle.

DVD



3

To make the screen disappear, press the **INFO** button again.



Note

- If the disc has only one angle, this feature won't work. Currently, very few discs have this feature.

Using the Bookmark Function

This feature lets you bookmark sections of a DVD, so you can quickly find them at a later time.

Using the Bookmark Function (DVD)

1

During play, press the **Bookmark** button on the remote control.



2

When you reach the scene you want to mark, press the **ENTER** button on the remote control. Up to 12 scenes may be marked at a time.



Note

- Depending on the disc, the Bookmark function may not work.

advanced functions

Recalling a Marked Scene

1

During play, press the **Bookmark** button on the remote control.



2

Press the **◀/▶/▲/▼** buttons to select a marked scene.



3

Press the **PLAY** (▶) button to skip to the marked scene.



Clearing a Bookmark

1

During play, press the **Bookmark** button on the remote control.



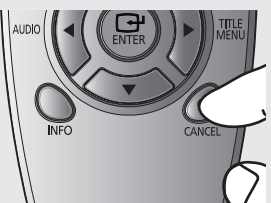
4

Press the **◀/▶/▲/▼** buttons to select the bookmark number you want to delete.



5

Press the **CANCEL** button to delete a bookmark number.

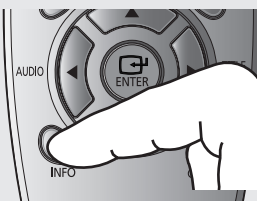


Using the Zoom Function

Using the Zoom Function (DVD)

1

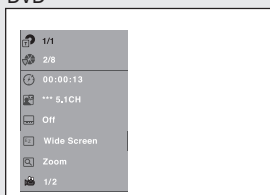
During play, press the **INFO** button on the remote control.



2

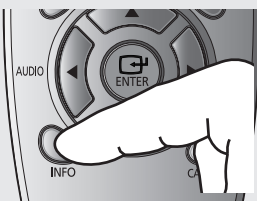
Press the ▲/▼ buttons to select  icon, then press the ENTER button to zoom in 2x, 3x, 4x.

DVD



3

To make the screen disappear, press the **INFO** button again.



advanced functions

-  : Name of currently playing file.

-  : Current Playback Mode : There are four modes. They can be selected in order by pressing the REPEAT button.

 - Of : Normal Playback.
 - Track : Repeats the current track.
 - Folder : Repeats the current folder.
 - Random : Files in the disc will be played in random order.
-  : AUDIO icon

-  : STOP icon

-  : PLAY file icon

-  : MP3 file icon

-  : WMA file icon

-  : JPEG file icon
-  : AVI file icon

-  : CD Audio file icon

-  : Folder icon

-  : Current Folder icon

Folder Selection

- To select the Parent Folder
Press the RETURN button to go to the parent folder, or press the ▲/▼ buttons to select “..” and press ENTER to go to the parent folder.

MP3/WMA/CD Audio Playback

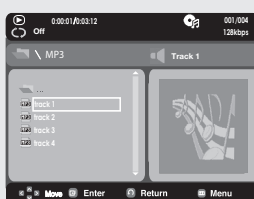
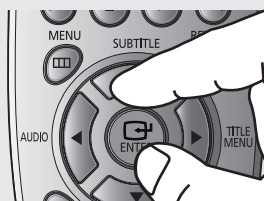
1

Open the disc tray.
Place the disc on the tray.
Close the tray.



2

Press the ▲/▼ buttons to select a song file.
Press ENTER to begin playback of the song file.



Repeat/Random playback

1

Press the **REPEAT** button to change the playback mode. There are four modes; **Off**, **Track**, **Folder** and **Random**.



- **Off**: Normal Playback
- **Track**: Repeats the current song file.
- **Folder**: Repeats the song files which have the same extension in the current folder.
- **Random**: Song files which have the same extension will be played in random order.

CD-R MP3/WMA file

When you record MP3 or WMA files on a CD-R for playback in this unit, please refer to the following.

- Your MP3 or WMA files should be **ISO 9660** or **JOLIET** format.

ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. This format is the most widely used.

- When naming your MP3 or WMA files, do not exceed **8** characters, and enter **“.mp3, .wma”** as the file extension.
General name format : Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (,./,\,=,+).

- Use a decompression transfer rate of at least **128 Kbps** when recording MP3 files.
Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting CD audio sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with decompression rates below 128 Kbps will not be played properly.

- Use a decompression transfer rate of at least **64Kbps** when recording WMA files.

Sound quality with WMA files basically depends on the rate of compression/decompression you choose.

Getting CD audio sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps.

Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly.

The sampling rate that can be supported for WMA files is >30 Khz.

- Do not try recording copyright protected MP3 files.
Certain "secured" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.

- **Important:**
The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).
- This unit can play a maximum of 500 files and 500 folders per disc.

advanced functions

MPEG4 Playback

MPEG4 Play Function

MPEG4 is a compressed video format designed to deliver DVD quality video at lower data rates and smaller file sizes. Types of MPEG4 files are DivX or Xdiv. These files have an .avi extension. AVI files are used to contain the audio and video data. Only AVI format files with the “.avi” extensions can be played.

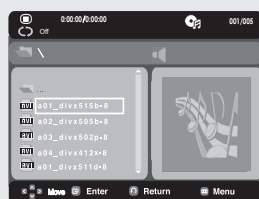
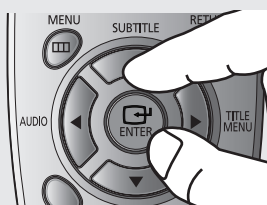
1

Open the disc tray.
Place the disc on the tray.
Close the tray.



2

Press the ▲/▼ or ◀/▶ buttons to select an avi file (DivX/XviD) and then press the ENTER button.



Repeat and Repeat A-B Playback

Press the REPEAT button to change playback mode. There are 4 modes
Off, Folder, Track.



- Track : repeats the track that is playing.
- Folder : repeats the AVI files which have the same extension in the current folder.
- Random : Song files which have the same extension will be played in random order.
- Off : No Repeat mode.

Press the REPEAT A-B button to set the point where you want repeat play to start (A).

Press the REPEAT A-B button again at the point where you want the repeat play to stop (B).



◀ To return to normal play, press the REPEAT A-B button until display show Repeat:Off.

Note

A-B REPEAT allows you to set point (B) directly after point (A) has been set.

MPEG4 Function Description

Function	Description	Reference page
Skip (◀◀ or ▶▶)	During play, press the ◀◀ or ▶▶ button, it moves forward or backward 5 minutes.	-
Search (◀◀ or ▶▶)	During play, press the SEARCH (◀◀ or ▶▶) button and press again to search at a faster speed. Allows you to search at a faster speed in an AVI file. (2X, 4X, 8X)	-
Slow Motion Play	Allows you to search at a slower speed in an AVI file. (1/2, 1/4, 1/8, 1/16)	P 20
ZOOM	Will zoom in 2X/3X/4X/Normal	P 33

- Depending on the MPEG4 file, these functions may not work.

CD-R AVI file

This unit can play the following video compression formats within the AVI file format:

- DivX 3.11 contents
- DivX 4 contents (Based on MPEG-4 Simple Profile)
- DivX 5 contents (MPEG-4 simple profile plus additional features such as bi-directional frames. Qpel and GMC are also supported.)
- Xvid MPEG-4 compliant Contents.

DVD-RW & DVD+R

Formats that are supported for DivX files :

- Basic DivX format DivX3.11 / 4.12/ 5.x
- Xvid (MPEG-4 compliant video codec) and DivX Pro
- File format : *.avi, *.div, *.divx.

This unit supports all resolutions for AVI up to maximum shown at the below.

DivX3.11 & DivX4 & XviD	DivX5
Bitrate may fluctuate: Device may skip decoding the high bitrate portions and begin decoding again when Bitrate returns to normal.	720 x 480 @30fps 720 x 576 @25fps : Maximum bitrate : 4Mbps

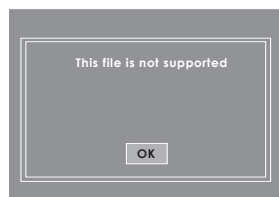
Note

- The DVD-H1080 can support resolutions up to 720 x 480 @30 frames/ 720 x 576 @25 frames for DivX discs.
- This unit supports CD-R/RWs written in MPEG4 in accordance with the "ISO9660 format".

Possible warning messages that may appear when trying to play DivX/AVI files are :

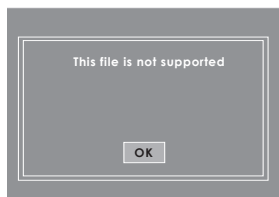
1. No Authorization

- File with bad registration code.



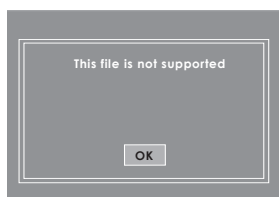
2. Unsupported Codec

- Files with certain Codec Types, Versions (ex. MP4, AFS and other proprietary codecs) are not supported by this player.



3. Unsupported Resolution

- Files containing resolutions higher than the player's specification are not supported (cannot be accessed).



advanced functions

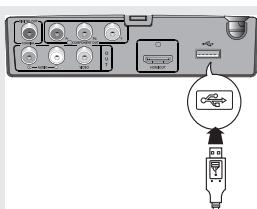
Playing Media Files Using the USB Host feature

You can enjoy media files such as pictures, movies and tunes saved on MP3 players, USB memory or digital camera by connecting them to the USB port of this DVD player.

Using the USB HOST feature

1

Connect the USB device to the USB Host on the rear panel of the player.



2

If your USB device is partitioned, press the ◀/▶ button to select one of the partitions, then press ENTER.



3

Press the ▲/▼ or ◀/▶ buttons to select a file in the USB device. Press ENTER to play the file.



Note

- When the USB button on the remote control is pressed, a display of the USB device selection will appear.
- "USB loading" appears on the display screen.
- The USB MENU screen appears on the TV screen and the saved file is played.
- If there is a Disc in the unit, pressing the USB button will make the player exit the USB menu and load the disc.

Safe USB Removal

Press the USB button to return to device partitions or main screen.

- Press the STOP (■) button
- Remove the USB device.

Skip Forward/Back

During playback, press the (◀◀ or ▶▶) button.

- When there is more than one file, when you press the ▶▶ button, the next file is selected.
- When there is more than one file, when you press the ◀◀ button, the previous file is selected.

Fast playback

To play back the disc at a faster speed, press (◀◀/▶▶) during playback.

- Each time you press either button, the playback speed will change as follows:
2x → 4x → 8x .

Compatible Devices

1. USB devices that support USB Mass Storage v1.0.
(USB devices that operate as a removable disk in Windows (2000 or later) without additional driver installation.)
2. MP3 Player: Flash type MP3 player.
3. Digital camera: Cameras that support USB Mass Storage v1.0.
 - Cameras that operate as a removable disk in Windows (2000 or later) without additional driver installation.
4. USB Flash Drive: Devices that support USB 1.0. USB 2.0 or USB1.1.
 - You may experience a difference in playback quality when you connect a USB1.1 device.
5. USB card Reader: One slot USB card reader and Multi slot USB card reader
 - Depending on the manufacturer, the USB card reader may not be supported.
 - If you install multiple memory devices into a multi card reader, you may experience problems.
6. If you use a USB extension cable, the USB device might not be recognized.

	File name	File Extension	Bit rate	Version	Pixel	Sampling Frequency
Still Picture	JPG	JPG .JPEG	–	–	640*480	–
Music	MP3	.MP3	80~384kbps	–	–	44.1kHz
	WMA	.WMA	56~128kbps	V8	–	44.1kHz
Movie	VCD	MPG.MPEG	1.5Mbps	VCD1.1,VCD2.0	320*480	44.1KHz
	DivX	.AVI,.ASF	4Mbps	DivX3.11~DivX5.1,Xvid	720*480	44.1KHz~48KHz

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported.
(Only FAT 16/32 (File Allocation Table 16/32) file system is supported.)
- Some MP3 players, when connected to this product, may not operate depending on the sector size of their file system.
- The USB HOST function is not supported if a product that transfers media files by its manufacturer-specific program is connected.
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.
- The USB host function of this product does not support all USB devices.

advanced functions

CD Ripping

This feature lets you to copy audio files from a CD into MP3 format on a USB device.

1

Open the disc tray.
Place the Audio CD(CD DA)
disc on the tray, and close
the tray. Connect the USB
device to the USB Host on the
rear panel of the player. This
screen will displayed.
Press ENTER to select disc.



2

Press the **RETURN** button
to display the Ripping
Screen.



3

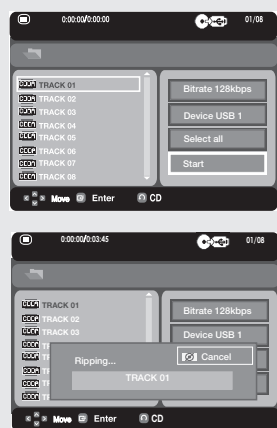
Press the ▲/▼ buttons,
then press the ENTER
button to select files for
ripping.



◀ - To deselect files, press ENTER button again.

4

Press the ► and ▼
buttons to select
START, then press the
ENTER button begin
ripping.



- ◀ Ripping Menu contain 4 buttons:
- Bitrate, press ENTER to change 128kbps→192kbps →128kbps...
 - Standard : 128kbps
 - Better Quality : 192kbps
 - Device selection, press ENTER to change between partitions on the USB device (max 4).
 - Select - Unselect, press ENTER to change from Select all (files) or Select none.

◀ - To cancel the copying in progress, press the **CANCEL** button.

Note

- To return to CDDA screen, press the **RETURN** button again.
- While the CD is being ripped, the player will automatically be in stop mode.
- Only the Audio CD(CD DA) discs can be ripped.
- Because the speed is 2.6 x of normal speed, you will not hear the CD's audio during the ripping process.
- The USB button does not work while you're in the ripping menu.

Picture CD Playback

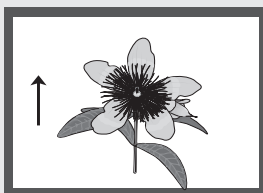
1

Select the desired folder.



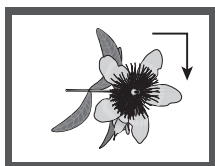
2

Press the ▲/▼ buttons to select a Picture file in the clips menu and then press the ENTER button.

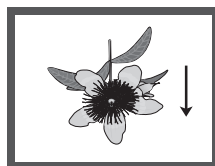


Rotation

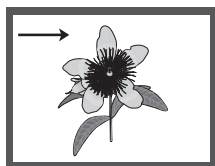
- Each time the ◀/▶ button are pressed, the picture rotates 90 degrees clockwise.



- Each time the ▲ button is pressed, the picture will turn upside down to show a mirror image.



- Each time the ▼ button is pressed, the picture will reverse to the right side to show a mirror image.



Note

- Press the STOP button to return to the clips menu.
- When playing a Kodak Picture CD, the unit displays the Photo directly, not the clips menu.

Slide Show

- When you press **PLAY** when viewing a JPEG file, it will go to full screen mode and the slide show automatically start.

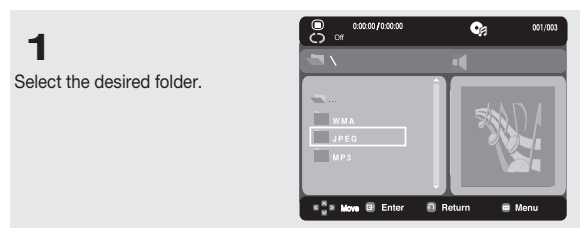
Note

- Depending on the file size, the amount of loading time each picture may be different.
- If you don't press any button, the slide show will start automatically in about 8 seconds.
- The **REPEAT** button does not work in JPEG.

advanced functions

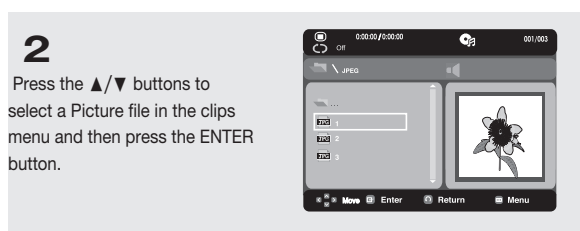
Picture CD Playback for HD-JPEG

To enjoy HD-JPEG, HDMI must be connected and the resolution should be to 720p or 1080i. Please set the HDMI as highest Resolution which your TV support.



Note

- To make the setup menu disappear, press the MENU button.



- Press the STOP (■) button to return to the clips menu.
- When playing a Kodak Picture CD, the unit displays the Photo directly, not the clips menu.

- Rotation

Press the ◀/▶ button to rotate the screen 90 degrees to the left/right.

- Skip Picture

Press the ◀◀ or ▶▶ button to select previous or next picture.

- Slide Show

Press the PLAY (▶) button to start the SLIDE show.

Press the STOP (■) button to stop the SLIDE show.

Note

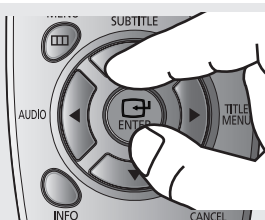
- Depending on the file size, the amount of loading time each picture may be different.
- The image may be displayed at a smaller size depending on the picture size when displaying images in HD-JPEG mode.
- It is recommended to set the "BD Wise" to "Off". In case of playback JPEG image file bigger than 720x480 pixel size.

MP3-JPEG Playback

You can play a JPEG photo file with background music.

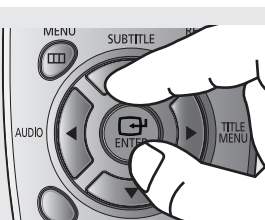
1

Press the ▲/▼ buttons to select an MP3 file in the clips menu and then press the ENTER button.



2

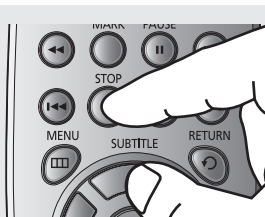
Press the ▲/▼ buttons to select a JPEG file in the clips menu and then press the ENTER button.



◀ Music will continue playing.

3

Press the STOP button when you want to stop playback.



Note

MP3 and JPEG files have to be on the same disc.

CD-R JPEG Discs

- Only files with the “.jpg” and “.JPG” extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +).
- Only a consecutively written multi-session disc can be played. If there is a blank segment in the multi-session disc, the disc can be played only up to the blank segment.
- A maximum of 500 images can be stored on a single CD.
- Kodak Picture CDs are recommended.
- When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played.
- Kodak Picture CD: The JPEG files in the pictures folder can be played automatically.
- Konica Picture CD: If you want to see the Picture, select the JPEG files in the clips menu.
- Fuji Picture CD: If you want to see the Picture, select the JPEG files in the clips menu.
- QSS Picture CD: The unit may not play QSS Picture CD.
- If the number of files in 1 Disc is over 500, only the first 500 JPEG files can be played.
- If the number of folders in 1 Disc is over 500, only the first JPEG files in 500 folders can be played.

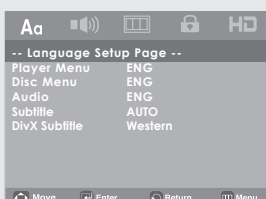
navigating the setup menu

Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, and even adjust the player to the type of television screen you have.

1

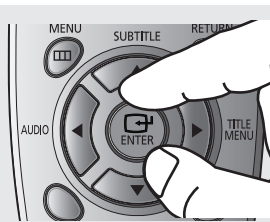
Press the **MENU** button on the remote control. Use the **◀/▶** buttons to select **Setup**, then press the **▼** or **ENTER** button.



- ❶ Language Setup Page: Setup of the Language.
- ❷ Audio Setup Page: Setup of the Audio Options.
- ❸ Display Setup Page: Setup of the Display Options. Use to select which type of screen you want to watch and several display options.
- ❹ Parental Page: Setup of the Parental Level. Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.
- ❺ HDMI Page:

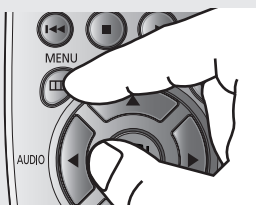
2

Press the **◀/▶** buttons to access the different features. Press the **▼** or **ENTER** button to access the sub features.



3

To make the setup screen disappear after setting up, press the **MENU** button again.



Note

Depending on the disc, some Setup menu selections may not work.

navigating the setup menu

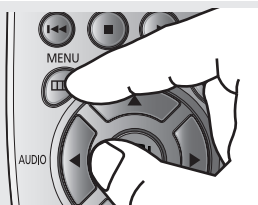
Setting Up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.

Using the Player Menu Language

1

Press the **MENU** button.



2

Press the ◀/▶ buttons to select **Language Setup Page**, then press the ▼ or **ENTER** button.



3

Press the ▲/▼ buttons to select **Player Menu**, then press the ▶ or **ENTER** button.



4

Press the ▲/▼ buttons to select the desired language, then press the **ENTER** button.



- ◀ - The language is selected and the screen returns to the Language Setup menu.
- To make the setup menu disappear, press the **MENU** button.

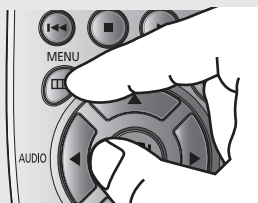
navigating the setup menu

Using the Disc Menu Language

This function changes the text language only on the disc menu screens.

1

Press the **MENU** button.



2

Press the **◀/▶** buttons to select **Language Setup Page**, then press the **▼** or **ENTER** button.



3

Press the **▲/▼** buttons to select **Disc menu**, then press the **▶** or **ENTER** button.



4

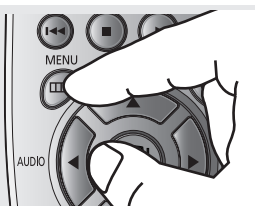
Press the **▲/▼** buttons to select the desired language, then press the **ENTER** button.



- ◀ - If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- The language is selected and the screen returns to the Language Setup menu.
- To make the setup menu disappear, press the **MENU** button.

Using the Audio Language

- 1**
Press the **MENU** button.



- 2**
Press the **◀/▶** buttons to select **Language Setup Page**, then press the **▼** or **ENTER** button.



- 3**
Press the **▲/▼** buttons to select **Audio**, then press the **▶** or **ENTER** button.



- 4**
Press the **▲/▼** buttons to select the desired language, then press the **▶** or **ENTER** button.



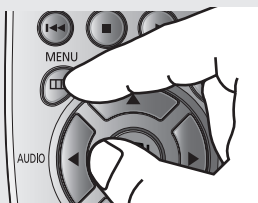
- ◀ - Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.
- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- The language is selected and the screen returns to the Language Setup menu.
- To make the setup menu disappear, press the **MENU** button.

navigating the setup menu

Using the Subtitle Language

1

Press the MENU button.



2

Press the ◀/▶ buttons to select **Language Setup Page**, then press the ▼ or ENTER button.



3

Press the ▲/▼ buttons to select **Subtitle**, then press the ▶ or ENTER button.



4

Press the ▲/▼ buttons to select the desired language, then press the ▶ or ENTER button.

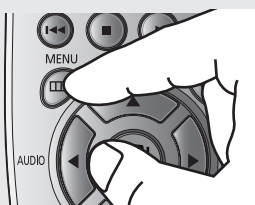


- ◀ - Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio language.
- Some discs may not contain the language you select ; in that case the disc will use its original language setting.
- The language is selected and the screen returns to the setup menu.
- To make the setup menu disappear, press the MENU button.

Using the DivX Subtitle Language

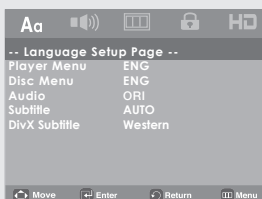
1

Press the **MENU** button.



2

Press the **◀/▶** buttons to select **Language Setup Page**, then press the **▼** or **ENTER** button.



3

Press the **▲/▼** buttons to select **DivX Subtitle**, then press the **▶** or **ENTER** button.



4

Press the **▲/▼** buttons to select the desired language, then press the **ENTER** button.



- ◀ - The language is selected and the screen returns to the setup menu.
- To make the setup menu disappear, press the **MENU** button.

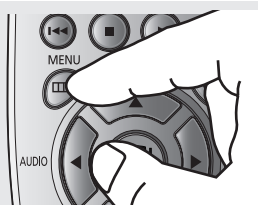
navigating the setup menu

Setting Up the Audio Options

Audio Options allow you to setup the audio device and sound status settings depending on the audio system in use.

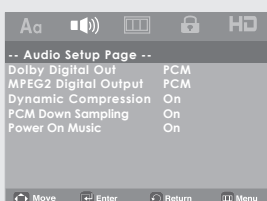
1

Press the **MENU** button.



2

Press the **◀/▶** buttons to select **Audio Setup Page**, then press the **▼** or **ENTER** button.



3

Press the **▲/▼** buttons to select the desired item, then press the **▶** or **ENTER** button.



◀ To make the setup menu disappear, press the **MENU** button.

The following describes each option found in the Audio Setup Menu.

❶ Dolby Digital Out

- PCM : Converts to PCM(2CH) audio.
- Bitstream : Outputs Dolby Digital via digital output.
Select Bitstream when connecting to a Dolby Digital Decoder.

❷ MPEG2 Digital Output

- PCM : Converts to PCM (2CH) audio.
- Bitstream : Converts to MPEG-2 Digital Bitstream (5.1CH or 7.1 CH). Select Bitstream when using the Digital Audio Output.

Note

When playing a disc that has MPEG Audio and bitstream is selected, depending on your AV receiver, the coaxial Digital Audio jack may not output audio.

❸ Dynamic Compression

- On : To select dynamic compression. This is useful for watching movies late at night, as it balances the loud and quiet portions of a disc.
- Off : To select the standard range.

❹ PCM Down Sampling

- On : Select this when the Amplifier connected to the player is not 96KHz compatible.
In this case, the 96KHz signals will be down converted to 48KHz.
- Off : Select this when the Amplifier connected to the player is 96KHz compatible. In this case, all signals will be output without any changes.

❺ Power Music On

- On : To turn On Start up music.
- Off : To turn Off Start up music.

Note

Even when PCM Down sampling is Off, some discs will only output down-sampled audio through the digital outputs.

HDMI

- If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS, MPEG), you should set Digital Audio to PCM.
- If your TV is not compatible with LPCM sampling rates over 48kHz, you should set PCM Down sampling to On.

Note

- To make the Setup menu disappear, press the MENU button.
- There is no analog audio output when you play a DTS disc.
You must make a Digital audio connection Coaxial.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

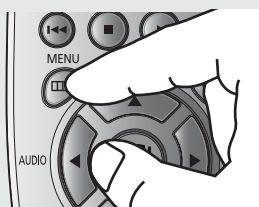
navigating the setup menu

Setting Up the Display Options

Display options enable you to set various video functions of the player.

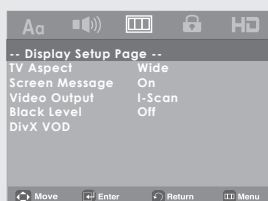
1

Press the **MENU** button.



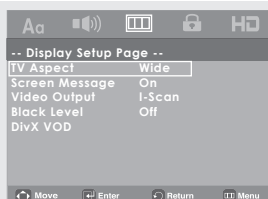
2

Press the ◀/▶ buttons to select **Display Setup Page**, then press the ▼ or **ENTER** button.



3

Press the ▲/▼ buttons to select the desired item, then press the ▶ or **ENTER** button.



◀ To make the setup menu disappear, press the **MENU** button.

The following describes each option found in the Display Setup Menu.

① TV Aspect

Depending on a type of television you have, you may want to adjust the screen setting (aspect ratio).

- **4:3 Pan&Scan** : Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- **4:3 Letter Box** : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- **16:9 Wide** : You can view the full 16:9 picture on your wide screen TV.



② Screen Messages

Use to turn on-screen messages On or Off.

③ Video Output

Select Video Output.

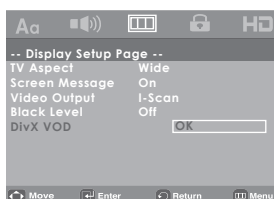
- **I-SCAN** : Select when you want to use Video and Component Interlace Out.
- **P-SCAN** : Select when you want to use Component Progressive Out or HDMI.

④ Black Level

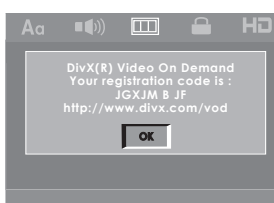
Adjusts the brightness of the screen (On or Off). It does not function in Progressive mode.

⑤ DivX VOD

Select DivX VOD, then ► or ENTER button Press OK to see the DivX Registration Number.



If you press OK, the setup menu disappears.



- Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- If Video Output is set incorrectly, the screen may be blank.

navigating the setup menu

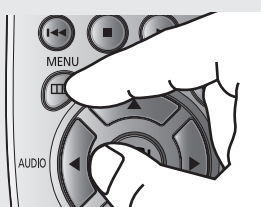
Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating, which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

Setting Up the Rating Level

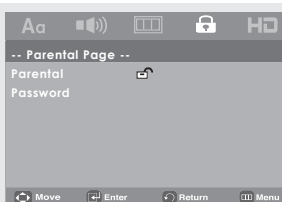
1

Press the **MENU** button.



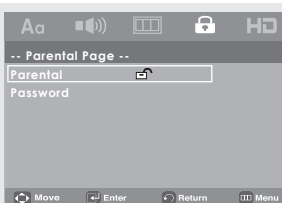
2

Press the **◀/▶** buttons to select **Parental Page**, then press the **▼** or **ENTER** button.



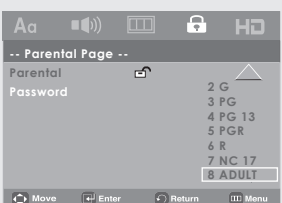
3

Press the **▲/▼** buttons to select **Parental**, then press the **▶** or **ENTER** button.



4

Press the **▲/▼** buttons to select the **Rating Level** you want, then press the **▶** or **ENTER** button.
e.g) Setting up in Kids Safe



◀ To make the setup menu disappear, press the **MENU** button.

For example, if you select the Kids Safe level, discs that contain level 2 or higher will not play.

5

Fill the blank box by press the **◀/▶/▲/▼** buttons to enter your password. Enter your password. By default, password is set to 0000.



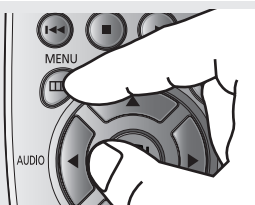
Note

- ❶ KID SAFE
- ❷ G (General Audiences) : All Ages Admitted
- ❸ PG (Parental Guidance suggested) : Some material may not be suitable for young children.
- ❹ PG 13 (PG-13 Parents strongly cautioned) : Some material may be inappropriate for children under 13.
- ❺ PGR (Parental Guidance Recommended) : These are not necessarily unsuitable for children, but viewer discretion is advised, and parents and guardians are encouraged to supervise younger viewers.
- ❻ R (Restricted) : Under 17 requires accompanying adult
- ❼ NC17 (NC-17) : No one 17 and under admitted.
- ❽ ADULT

Changing the Password

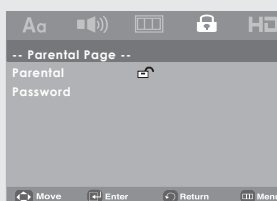
1

Press the **MENU** button.



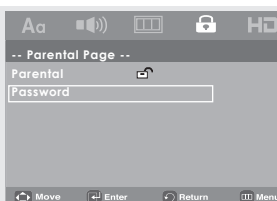
2

Press the **◀/▶** buttons to select **Parental Page**, then press the **▼** or **ENTER** button.



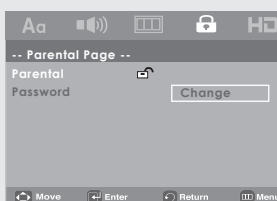
3

Press the **▲/▼** button to select **Password**, then press the **▶** or **ENTER** button.



4

Select **Change**, then press **ENTER** button.



◀ To make the setup menu disappear, press the **MENU** button.

5

Fill the blank box by pressing the **◀/▶/▲/▼** buttons to enter your old password. By default the password is set to 0000.



6

Please change the password to other than 0000 to activate the parental control function. Enter your new password. Re-enter the new password again.



Note

If you have forgotten your password, see “Forgot Password” in the Troubleshooting Guide.

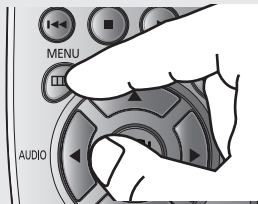
navigating the setup menu

Setting Up HDMI

This setting is used when the unit is connected by HDMI to Display devices (TV, Projector, etc.).

1

Press the **MENU** button.



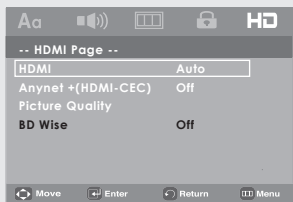
2

Press the **◀/▶** buttons to select **HDMI Page**, then press the **▼** or **ENTER** button.

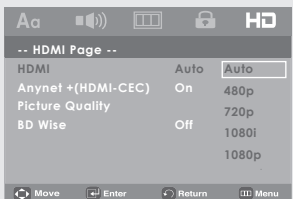


3

Press the **▲/▼** buttons to select **HDMI**, then press the **▶** or **ENTER** button.



Press the **▲/▼** buttons to select suitable **resolution**, then press the **ENTER** button.



- Resolution

- 480p : 720 x 480
- 720p : 1280 x 720
- 1080i : 1920 x 1080i
- 1080p : 1920x 1080p

Note

- The resolutions available for HDMI output depend on the connected TV or projector. For details, see the user's manual of your TV or projector.
- When the resolution is changed during playback, it may take a few seconds for a normal image to appear.
- If you have HDMI connected, better picture quality will be provided when the output resolution is set to 720p, 1080i or 1080p.

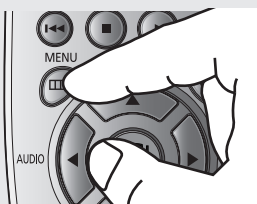
Setting Up The Anynet+(HDMI-CEC)

Anynet+ is a function that can be used to operate this DVD Player using a Samsung TV remote control. This is done by connecting the DVD player to a SAMSUNG TV using an HDMI Cable. (see pages 12-13) This is only available with SAMSUNG TVs that support Anynet+.

To operate Anynet+, you must turn Anynet+(HDMI-CEC) On in the Setup Menu.

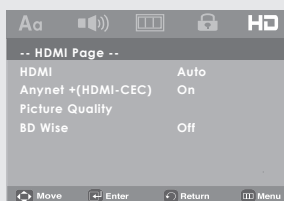
1

Press the **MENU** button.



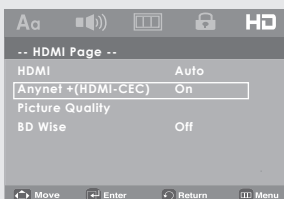
2

Press the **◀/▶** buttons to select **HDMI Page**, then press the **▼** or **ENTER** button.



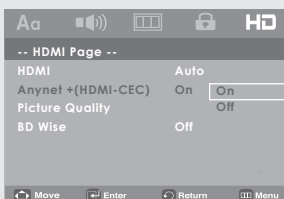
3

Press the **▲/▼** buttons to select **Anynet+(HDMI-CEC)**, then press the **▶** or **ENTER** button.



4

Set the Anynet+(HDMI-CEC) to **"On"** on your DVD Player., then press the **▶** or **ENTER** button.



◀ To make the setup menu disappear, press the **MENU** button.

5

Set the Anynet+ function on your Samsung TV. (See your TV instruction manual for more information.).

- When you press Anynet+ button on the TV remote control, the OSD to the right will appear.



TV Menu

navigating the setup menu

You can operate the DVD Player by using the Samsung TV's TV remote control. These are buttons that can be used to operate the DVD Player:



- **Select Device** : Use this option to select the device which you want to connect to your TV.
- **Menu on Device** : Same as MENU button on the DVD Player remote control.
- **Device Operation** : Same as INFO button on the DVD Player remote control.

Note

- While watching TV, your TV screen will change to the play screen when you press the **PLAY** button of the DVD player.
- If you play a DVD when the TV power is off, the TV will power On.
- If you turn the TV off, the DVD Player will power off automatically.
- If you change from HDMI to other sources (Composite, Component, ... etc) while playing a DVD disc, the DVD Player will stop playing.

Setting Up Picture Quality

1

Press the MENU button.



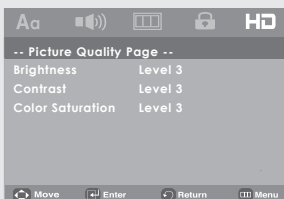
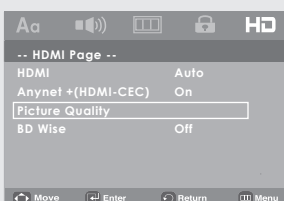
2

Press the ◀/▶ buttons to select HDMI Page, then press the ▼ or ENTER button.



3

Press the ▲/▼ buttons to select Picture Quality, then press the ▶ or ENTER button.



Note

- Brightness : Level 1 ~ Level 5
- Contrast : Level 1 ~ Level 5
- Color Saturation : Level 1 ~ Level 5

Note

- This setting works with all video outputs (Video Component, HDMI).

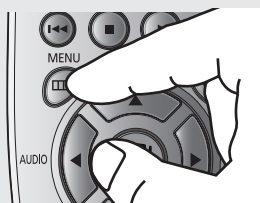
navigating the setup menu

Setting Up the BD Wise

When the player is connected to a SAMSUNG TV which supports “BD Wise”, you can enjoy optimized Picture Quality by setting the “BD Wise” function as “On”.

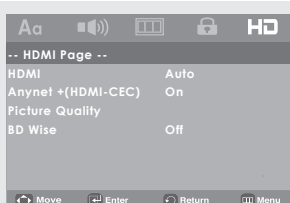
1

Press the **MENU** button.



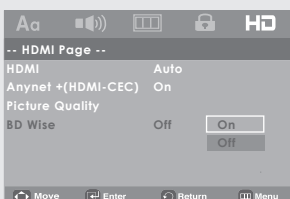
2

Press the **◀/▶** buttons to select **HDMI Page**, then press the **▼** or **ENTER** button.

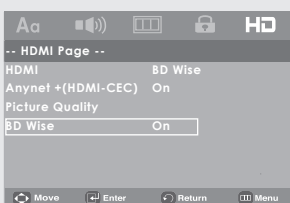


3

Press the **▲/▼** buttons to select **BD Wise**, then press the **▶** or **ENTER** button. Press the **▲/▼** buttons to select **On**, then press the **ENTER** button.



◀ This option can be changed only when TV support BD Wise.



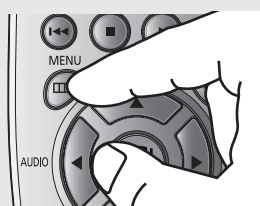
How to turn Off the BD Wise

If you wish to change to other resolution when “BD Wise On”, Please choose a method between these two as follows :

Method 1

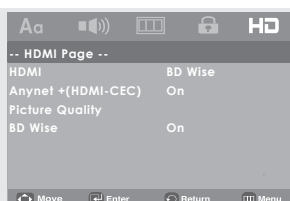
1

Press the **MENU** button.



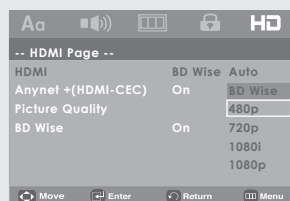
2

Press the ◀/▶ buttons to select **HDMI Page**, then press the ▼ or ENTER button.

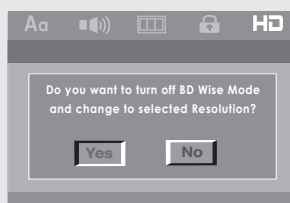


3

Press the ▲/▼ buttons to select **HDMI**, then press the ▶ or ENTER button. Press the ▲/▼ buttons to select resolution you wish to use, and then press the ENTER button.



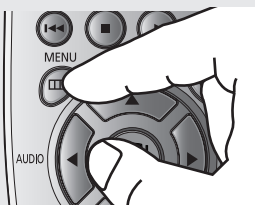
Please choose “Yes” to continue, otherwise choose “No” to keep current setting.



Method 2

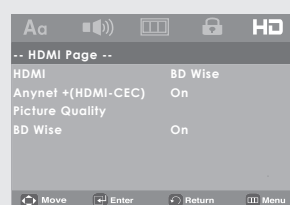
1

Press the **MENU** button.



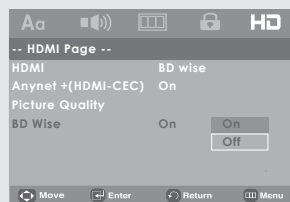
2

Press the ◀/▶ buttons to select **HDMI Page**, then press the ▼ or ENTER button.



3

Press the ▲/▼ buttons to select **BD Wise**, then press the ▶ or ENTER button. Press the ▲/▼ buttons to select **Off**, then press the ENTER button.
- The HDMI resolution will be changed to maximum resolution supported by your TV.



Note

- The first time when you turned on this product after purchase, and connected to your TV which supports “BD Wise” via HDMI, the “BD Wise” function will be automatically set to “On”.
- If you turn off the DVD player when the “BD Wise” function is “On”, the player will retain the “BD Wise” function as long as it is connected to TV which support “BD Wise”.
- If the HDMI cable is plugged out when the function is “On”, and plugged back into another TV which does not support “BD Wise”, then the HDMI Resolution will be automatically set to “Auto” and connect to other TV Product which do not support “BD Wise” then the HDMI Output resolution goes to “Auto”.
- A Samsung TV which supports “BD Wise” can be set to “BD wise” mode or any other picture mode (Dynamic, Standard, etc..) when “BD Wise” function of the connected DVD Player is set to “On”.
- When Both TV and DVD Player is set to “BD Wise” You can enjoy optimized Picture Quality.
- When your DVD Player connected to TV which support “BD Wise” You can set the “BD Wise” to “On” even if the TV is set to any other Picture mode than “BD Wise”. In this case, the color tone or brightness might be slightly different compared to the case of both TV and DVDP is in “BD wise”.
- It is recommended to set the “BD Wise” to “Off”. In case of playback JPEG image file bigger than 720x480 pixel size.

Firmware upgrade

Introduction

Upgrading the Firmware will keep your DVD player up to date.

The latest firmware version for this unit is provided on the Samsung Website.(www.samsung.com).

How to make an upgrade disc

You must burn the latest firmware version onto a blank CD-R or CD-RW disc:

1. You have to download a new file through Samsung's Download Center. (www.samsung.com).
2. Write the file to Disc using the CD-RW drive of your computer.

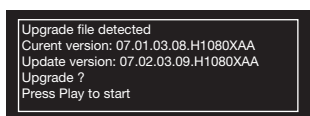
Note

The CD should be burned following specs below.

- File System CD-ROM ISO Level.
- Character set ISO 9660.
- The burned CD has to be Finalized.
- Please burn the CD at a low speed.

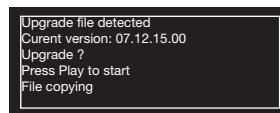
Upgrade procedure

1. Open the disc tray of your DVD-Player. Place the burned disc on the tray. Close the tray.
The Firmware upgrade screen will appear.

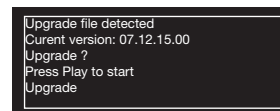


Firmware upgrade menu appears

2. Press the **ENTER** or **PLAY** to start upgrade.
 - Press any other button on the remote control or eject the disc to cancel the upgrade.

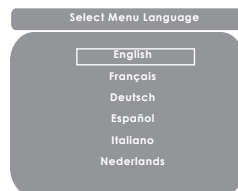


Firmware upgrade starts



Firmware upgrade starts

- During the firmware upgrade process, the tray will open.
Please remove the disc and wait for about 2 minutes.
 - If the DVD player was successfully updated, the disc tray will close and the unit will turn off and on.
When the unit turns on, the Select Menu Language screen will appear.
3. Press the **▲/▼** buttons to select the desired language, and then press the **ENTER** button.



Note

- If the "Select Menu Language" doesn't appear, please contact Samsung Customer Service. (see page 64)
- Do not press any button or unplug the power cord during the upgrade.
- The upgrade procedure may change, refer to the web site (www.samsung.com).
- When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.

Troubleshooting

Before requesting service, please check the following.

Problem	Action	Page
No operations can be performed with the remote control.	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.	P5
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD.	P8
The  icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	
Disc Menu doesn't appear.	• Check if the disc has a Menu.	
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P44~59
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P52~53
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P50~51
The screen is blocked	• Press the ► button (on the front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings.	P19
Forgot password	• Press the ► button (on the panel) for more than 5 seconds with no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary.	P55
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest Samsung authorized service center.	
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc.	P4
No HDMI output.	• Check if the Video output is set to HDMI. • Check the connection between the TV and the HDMI jack of DVD player. • See if the TV supports this 480p/720p/1080i/1080p DVD player.	P12~13
Abnormal HDMI output screen.	• If snow noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).	P12~13
HDMI output Jitter.	• Check if your TV is setup correctly. • Screen Jitter may occur when frame rate is converted from 50Hz to 60Hz for 720P/1080i/1080p HDMI (High Definition Multimedia Interface) Output. • Please refer to the user's manual of your TV.	P56

Specifications

General	Power Requirements	AC 120V ~ 60 Hz
	Power Consumption	8 W(ON), 1W (OFF)
	Weight	2.2 lbs 36 oz
	Dimensions	10.4" (W) X 9.8" (D) X 2.05" (H)
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 ~ 4.06 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 5" (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.
	CD : 3 1/2" (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load) Resolution: Progressive Setting : 480p
	HDMI	480p, 720p, 1080i, 1080p
Audio Output	Maximun Output Level	2Vrms
	Output Terminal	RCA
	Digital Audio Output	Coaxial (S/P/DIF)
	*Frequency Response	20Hz~20kHz

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications with out notice.
- Weight and dimensions are approximate.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Contact Center ☎	Web Site
North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com/us
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421, 4004-0000	www.samsung.com/br
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	www.samsung.com/latin
	HONDURAS	800-7919267	www.samsung.com/latin
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
Europe	COLOMBIA	01-8000112112	www.samsung.com.co
	BELGIUM	02 201 2418	www.samsung.com/be
	CZECH REPUBLIC	800-726-786 (800 - SAMSUNG)	www.samsung.com/cz
	DENMARK	70 70 19 70	www.samsung.com/dk
	FINLAND	030-6227 515	www.samsung.com/fi
	FRANCE	3260 SAMSUNG (€ 0,15/Min) 08 25 08 65 65 (€ 0,15/Min)	www.samsung.com/fr
	GERMANY	01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.de
	HUNGARY	06-80-SAMSUNG(726-7864)	www.samsung.com/hu
	ITALIA	800-SAMSUNG(726-7864)	www.samsung.com/it
	LUXEMBURG	02 261 03 710	www.samsung.com/lu
	NETHERLANDS	0900-SAMSUNG (726-7864 € 0,10/Min)	www.samsung.com/nl
	NORWAY	815-56 480	www.samsung.com/no
	POLAND	0 801 801 881, 022-607-93-33	www.samsung.com/pl
	PORTUGAL	80820-SAMSUNG(726-7864)	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	SPAIN	902-1-SAMSU(72678)	www.samsung.com/es
	SWEDEN	0771-400 200	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk
	EIRE	0818 717 100	www.samsung.com/ie
	AUSTRIA	0800-SAMSUNG(726-7864)	www.samsung.com/at
	SWITZERLAND	0800-SAMSUNG(726-7864)	www.samsung.com/ch
CIS	RUSSIA	8-800-555-55-55	www.samsung.ru
	KAZAKHSTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	KYRGYZSTAN	00-800-500-55-500	
	TADJIKISTAN	8-10-800-500-55-500	
	UKRAINE	8-800-502-0000	www.samsung.ua
	LITHUANIA	8-800-77777	www.samsung.lt
	LATVIA	8000-7267	www.samsung.com/lv
	ESTONIA	800-7267	www.samsung.ee
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com/au
	NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com/nz
	CHINA	800-810-5858, 400-810-5858, 010-6475 1880	www.samsung.com/cn
	HONG KONG	3698-4698	www.samsung.com/hk
	INDIA	3030 8282, 1800 110011, 1-800-3000-8282	www.samsung.com/in
	INDONESIA	0800-112-8888	www.samsung.com/id
	JAPAN	0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
	PHILIPPINES	1800-10-SAMSUNG(726-7864)	www.samsung.com/ph
	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com/sg
	THAILAND	1800-29-3232, 02-689-3232	www.samsung.com/th
	TAIWAN	0800-329-999	www.samsung.com/tw
Middle East & Africa	VIETNAM	1 800 588 889	www.samsung.com/vn
	TURKEY	444 77 11	www.samsung.com/tr
	SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com/za
	U.A.E	800-SAMSUNG (726-7864), 8000-4726	www.samsung.com/ae

Warranty

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for the following limited warranty period:

One (1) Year Parts / Ninety days (90) Labor

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States, and does not include transportation, installation, removal or reinstallation. Warranty repairs must be performed by SAMSUNG's authorized service center. To receive warranty service, the original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center.

Transportation to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge with new or reconditioned parts, if found to be defective during the limited warranty period specified above. The product must be returned during the warranty period with transportation charges prepaid to SAMSUNG's designated service center. Prior to returning any product for warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. SAMSUNG does not warrant uninterrupted or error-free operation of the product. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following, including, but not limited to: damage which occurs in shipment; applications and uses for which this product was not intended; failures or problems which are caused by products or equipment not supplied by SAMSUNG; accidents, misuse, abuse, neglect, misapplication, fire, water, lightning or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper or faulty installation; improper connection with any peripheral; product alteration or modification; improper or unauthorized repair; cosmetic damage or exterior finish; product with altered serial numbers; failure to follow operating instructions, customer adjustments, maintenance and environmental instructions that are covered and prescribed in the instruction book; use of non-SAMSUNG or unauthorized parts, supplies, accessories or equipment which damage this product or result in service problems; failures or problems due to incompatibility with other equipment.



QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT	WRITE
IN THE US	1-800-SAMSUNG (7267864)	www.samsung.com	Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511

